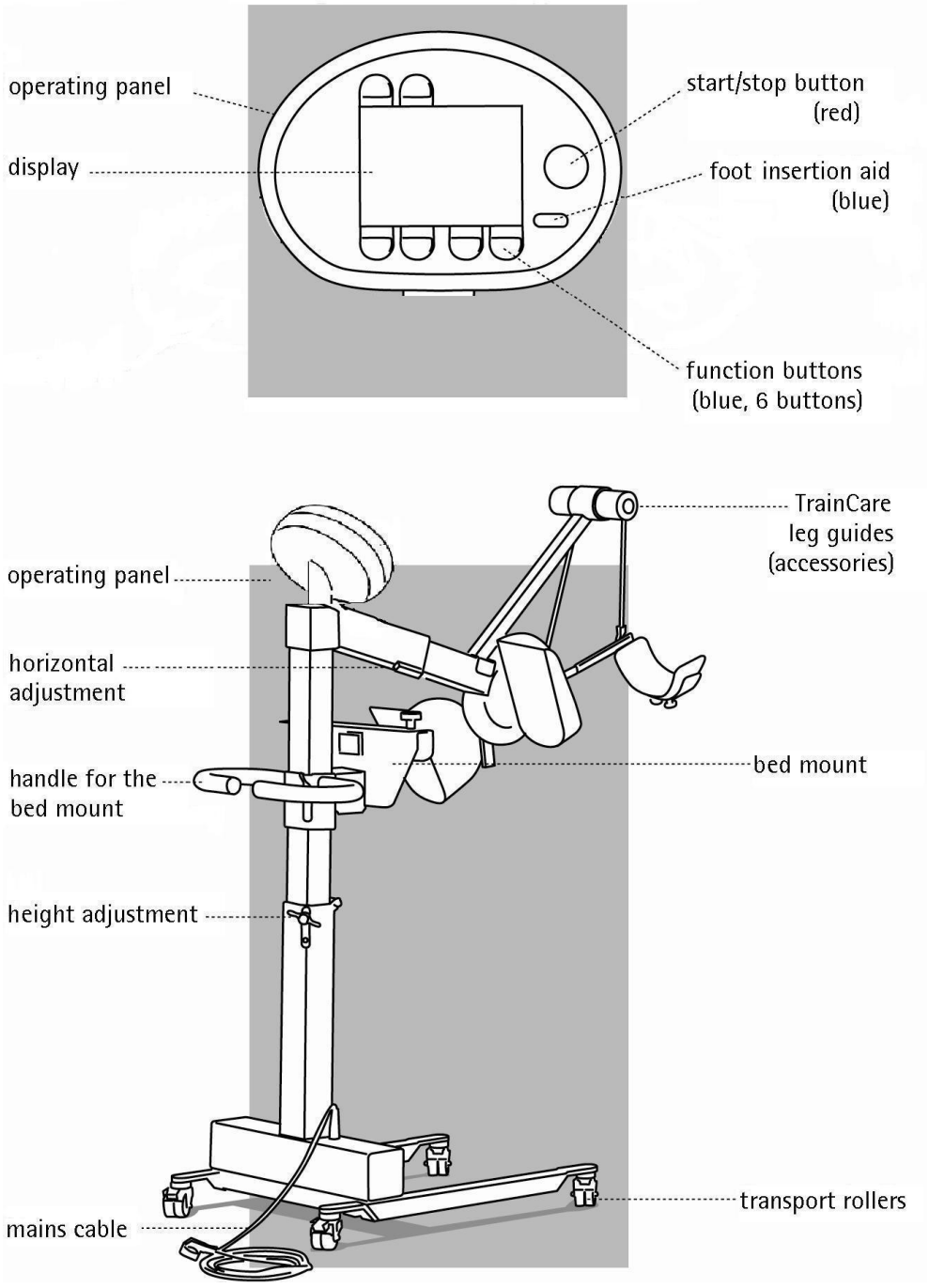
Service manual

MOTOmed letto2


operating panel
display
start/stop button (red)
foot insertion aid (blue)
function buttons (blue, 6 buttons)
TrainCare leg guides (accessories)
operating panel
horizontal adjustment
handle for the bed mount
bed mount
height adjustment
transport rollers
mains cable

Safety notes

page:

- **Safety precations** *4*
- **ESD orders** *4*

Assembly instructions:

Electronic

page:

- **Exchanging the fuses** *5*

Mechanical

page:

- **Exchanging the pedal crank** *7*
- **Assembly of the pedal radius quick adjustment** *8*
- **Exchanging the foot shells** *9*
- **Assembly of the self-operating foot holders** *10*
- **Assembly of the leg guides with calf shells** *12*

Safety notes

Safety precautions

- Disconnect the mains plug before each repair / installation.
- Repairs may be carried out ONLY by or under direction and supervision of individuals (qualified personnel) whose qualified training, knowledge and experience enable them to evaluate the repair and to recognize the potential effects and hazards that might result out of the repair.
- Only original parts can be attached or exchanged. Follow the norm DIN VDE 0751.
- To prevent fire or an electric shock, please do not start the MOTOmed letto2 while the casing is dismantled.
- For installation or repair the instructions, indicated in the service manual have to be followed.
- Make sure to connect the ground cable, after repair or installation is done !!!
- Please make sure that all screws are tightened again, before operation of the MOTOmed letto2.

ESD - Orders

Electro Static Discharge

„Mostly invisible, however insidious !!! "

From every friction electric potential arises.
This is the case while combing the hair or while taking off a pullover.
This is a standing electric potential forming when two different surfaces are joined together and are separated again.
These electric potentials are only dangerous for microelectronic piece parts, because these electric potentials are sufficient for destroying or damaging them.

That is why you have to discharge yourself before repairing or installing the MOTOmed viva. The best way to do this is with suitable protective material. Otherwise you earth yourself by winding a conductor round your leg (skin contact) and by leading the other end to the floor.
It is also not advisable to work on something like of man made (artificial) fibres with electronic parts, because they are endangered by ESD.

Assembly instrucctions

Electronic

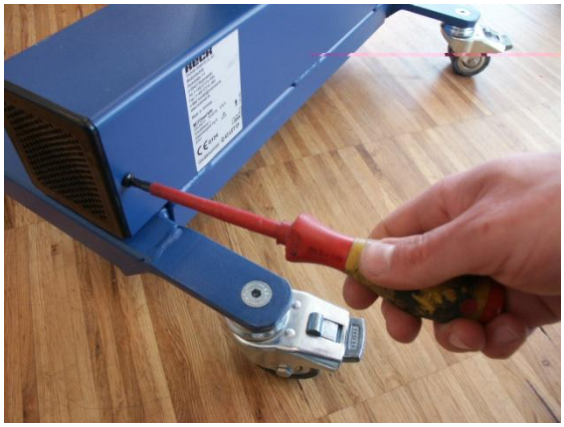
Exchanging the fuses

Attention !!! Disconnect the mains cable before repair / installation of the MOTOmed letto2!

Please read the safety precautions and the ESD orders !!!

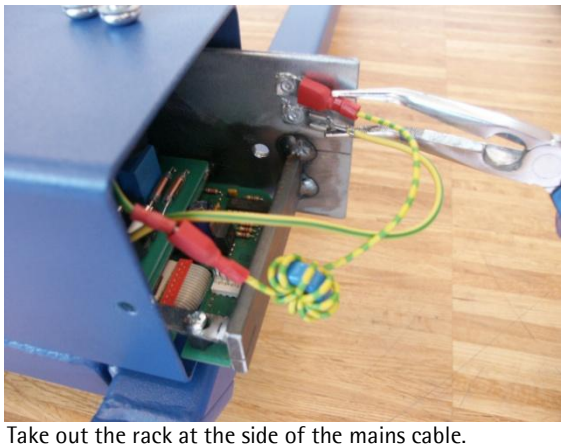
To exchange the fuse, the air stoppers have to be removed at the bottom of the MOTOmed letto2. Therefore release the black cross-recessed screws and the both Allen screws. Then you can take out the electronic rack at the side of the mains cable. Now you have access to all screws of the MOTOmed letto2 and can exchange them, if necessary.
Please note if you pull too much or too strong, the cables can be damaged or they can be pulled out.

Unit: 230 V	primary fuse : 1,6 A
letto2	021501.6XP Littelfuse or 179200.1.6IP Siba



Loosen the 4 fixation screws for the air stoppers.
Then take away both covering caps.

Loosen both screws for the fixation of the rack.



Take out the rack at the side of the mains cable.

Now you have access to all fuses.
The primary fuses are the ceramic ones and the secondary fuse is the glass one.

Mechanical

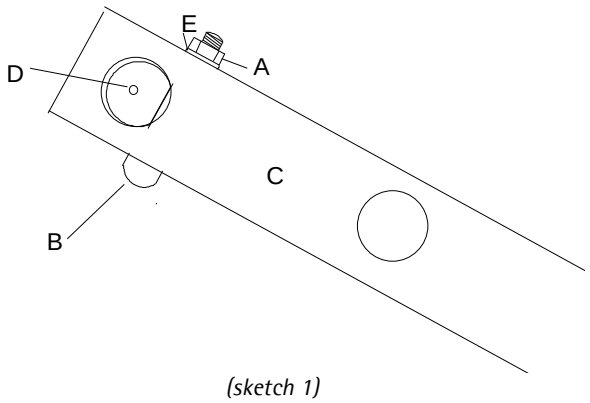
Page:

* **Exchanging the pedal crank (or adjustment of the pedal radius)** *7*
* **Assembly of the pedal radius quick adjustment** *8*
* **Exchanging the foot shells** *9*
* **Assembly of the self-operating foot holders** *10*
* **Assembly of the leg guides with calf shells** *12*

Exchanging the pedal crank (or adjustment of the pedal radius)

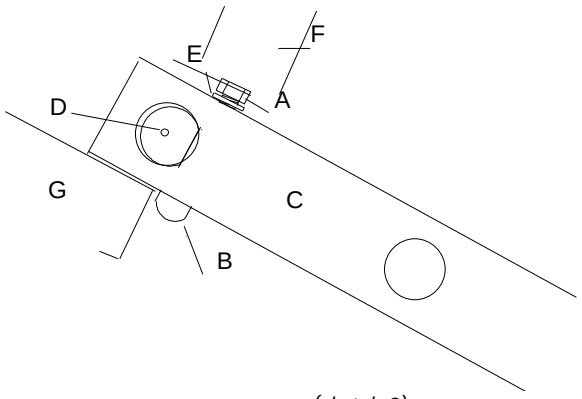
Attention!! Disconnect the main plug before repair / installation of MOTOmed letto!

– Please protect the side panels and the drums with a material like cardboard between side panels and pedal crank.



(sketch 1)

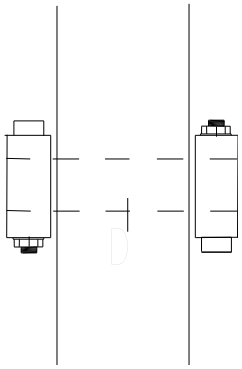
– Release nut A with ring spanner 11 mm or fork wrench until nut A is flush with the thread of the bolt form the cotter pin for protecting the screw thread. *(sketch 1 / 2)*



(sketch 2)

– Release the cotter pin B by tapping with a hammer onto F (*sketch 2*). Base G is meanwhile a protection for axis D (you can press wood from below to the crank C for example).
– Remove nut A and washer E.
– Pull out cotter pin B.
– Now you can remove the pedal crank from axis D.

- The pedal crank should stand out for 1 mm, otherwise the pedal crank could rub at the drum.
- When installing again, pay attention to the fact that the cotter pins of both pedal cranks must be installed in opposed direction and must be knocked in with a hammer *(sketch 3).*
- Tighten the nuts.



(sketch 3)

Assembly of the pedal radius quick adjustment

The quick adjustment of the pedal radius is delivered complete with the foot shells. For installation to the MOTOmed letto please follow to the instructions of the previous description:
Exchanging the Pedal crank (page 14)

Exchanging the foot shells

a.) Complete mounting with pedal cranks, see description in
Exchanging the Pedal crank (page 14)

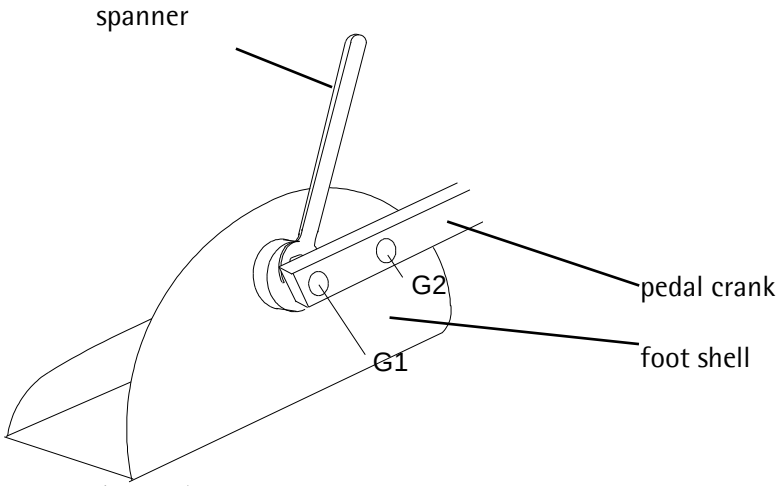
Attention!! Disconnect the main plug before repair / installation of MOTOmed viva!

b.) Screwing in a foot shell in the pedal crank.

- Removing the pedal cranks from the unit (**Exchanging the Pedal crank** (page 14))
- Unscrew the nut between pedal crank and foot shell with the delivered fork wrench for detaching the pedal crank from the foot shell *(sketch 1).*

  Attention this is a left-handed thread!!!
  (Releasing in clockwise direction, tightening in the reverse direction)

In the case that it is difficult to release the nut you can putt he pedal crank in a vice. Please use in any case a base (between vice and pedal crank (for example wood))



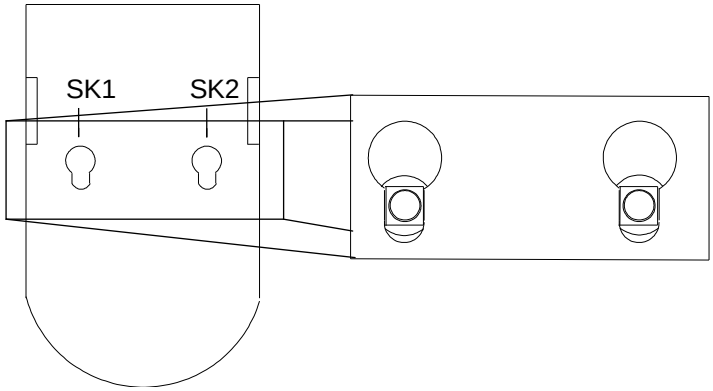
(sketch 1)

- Tighten well.
- Fixing of the pedal cranks to the unit (see **Exchanging the pedal crank** (page 14))

Assembly of the self-operating foot holders

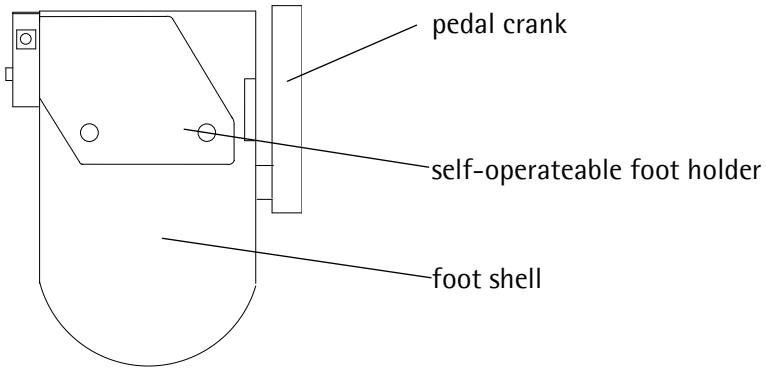
Attention!! Disconnect the main plug before repair / installation of MOTOmed viva!

For mounting of the self-operateable foot holders you need not to remove the foot shells from the unit.

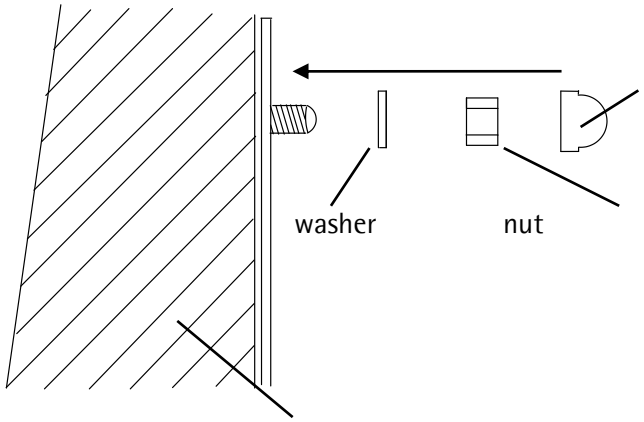


(sketch 1 foot shell from below)

- Insert the screws SK1, SK2 in the opening similar to a keyhole from underneath and move them towards the thinner end *(sketch 1)*
- Putt the plate with the self-operateable foot holders at the underside of the foot shell *(sketch 2)*



(sketch 2)

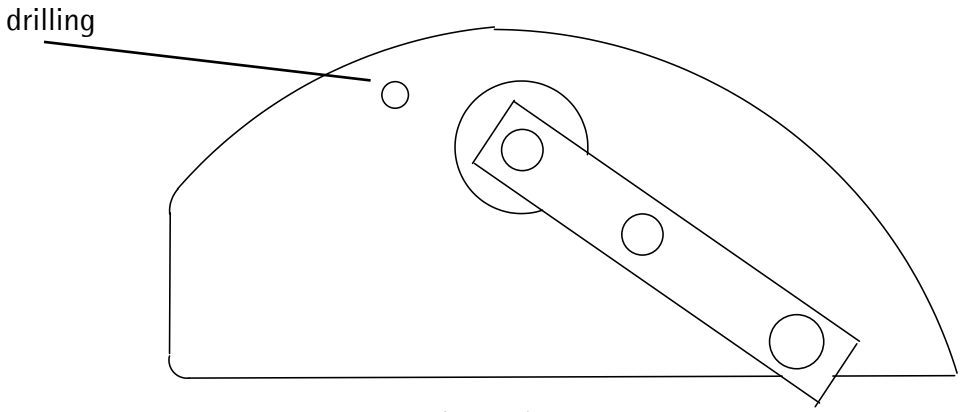


(sketch 3)

Putt the washer on screw, tighten nut with 10 mm spanner, put on cover cap *(sketch 3)*

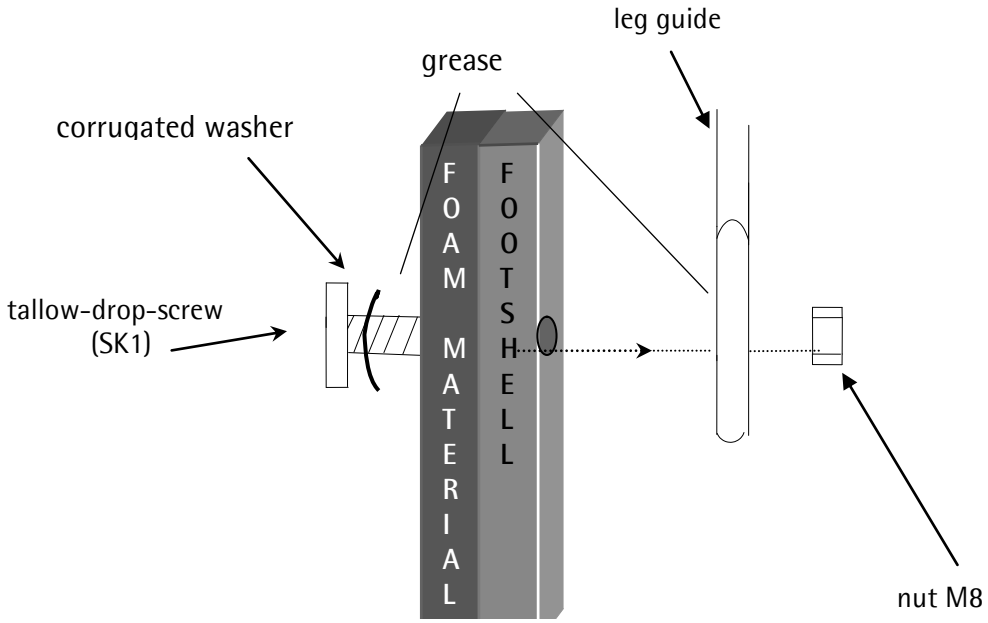
Assembly of the leg guides with calf shells

Attention!! Disconnect the main plug before repair / installation of MOTOmed letto!



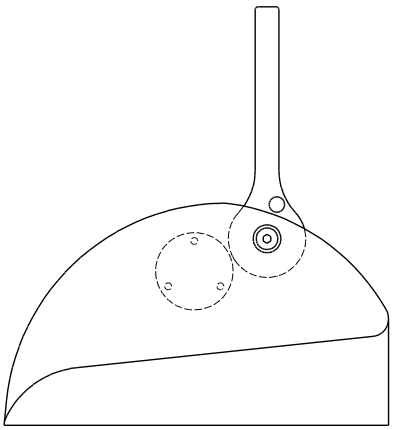
(sketch 1) side view of the left foot shell

-Stick through the drilling hole with a needle or another sharp object in order to attach there the tallow-drop screw M8x12 to the foam material.



(sketch 2) Part of the left foot shell to look at from the top

- Put on screw SK1 from the inside of the foot shell, grease, push through foam material and foot shell. *(sketch 2)*
- Put from the other side the washer on the leg guides and grease it.
- The leg guides have to be mounted in a way that the stopper of the leg guide point to the direction of the back of the foot shell.



(sketch 3) left foot shell mounted with lower part of leg guide

- Screw SK1 in leg guide.
- Screw in the nut while fixing the bolt.
- When tighten in the nut it must be possible to move the leg guide with the thumb. But it must be strong enough, that the leg guides cannot turn down while lifting the foot shell.

CE 0124

QUALITÄTS-MANAGEMENT Wir sind zertifiziert

MOTOmed®
MovementTherapySystems

RECK-Technik GmbH & Co. KG
Reckstraße 1-4, 88422 Betzenweiler,
GERMANY
Phone +49 (0) 73 74-18 85
Fax +49 (0) 73 74-18 480
contact@motomed.com, www.motomed.com

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